

ABSTRACT

The invention concerns a composite material consisting of intermetallic phases and ceramic, in particular in the form of a coating on metallic substrates, as well as an arc wire spraying process for production of the composite material in which the intermetallic phases and the ceramics to be deposited are newly formed during the deposit process from the components of the supplied wires by chemical reaction. The invention further concerns wear resistant layers formed by the composites, tribologic layers and plating or hard-facing materials.